Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_

Goal: Your task is to show your knowledge of geometric shapes relating to circles by creating a floor plan blueprint of a new performing arts school and proposing the new building to board members.

Role: You are a pair of architects with a strict budget. You need to create a blueprint and proposal of a new creative building. Since it is a performing arts school your design should be very avant-garde and utilize unusual techniques in building structure. Your clients prefer organic shapes and circles to promote a calming, creative atmosphere. Your job is to create a school building that is sound in structure, creative with the use of circles, within the budget, and propose this plan to a board of school members.

Audience: Your target audience is the school board, principal, parents, and high school students.

Situation: The challenge involves creating an 18” x 20” blueprint of the new school and a name for the school. The design must include circles and have a secure structure. Then write a clear proposal explaining why you used the structure you used with the strict budget of $750,000.

Product: One 18” x 20” blueprint of the new school. One 2 page essay explaining the blueprint, budget usage, and structure of the school. One 3 minute speech on why your school is the one to choose for the project.

Standard: Your blue print, paper, and speech will be judged with a rubric.

Requirements/ constraints: The land that is available to you is 150,000 square feet. You will only be creating 1 floor of the building.

Product costs:

Grass $0.60/ square foot Wood flooring $10.00/ square foot

Concrete $5.00 / square foot Asphalt $3.00/ square foot

Tile flooring $7.00/ square foot Carpet flooring $ 5.00/ square foot

Water (pool) $7.00/ square foot

Walls: Brick: $16.00 per foot Drywall: $10.00 per foot

Each door = $500.00 Window: $100.00 per window

Examples of Buildings and Floor Plans

  

 

